

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Leslie Wong Examiner #: 68866 Date: 01/11/04
 Art Unit: 1761 Phone Number 301-571-2727-1411 Serial Number: 101039427
 Mail Box and Bldg/Room Location: 8A51 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Furfuryl propyl disulfide as a flavoring agent
and methods for preparing and using same
 Inventors (please provide full names): _____

Ronald Louis Behrger, Benjamin Owen Isaac, Anne-Dominique Fortinneau

Earliest Priority Filing Date: 05/09/2000

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

① furfuryl propyl disulfide (ckim 1)
(2-furan-CH₂SSCH₂CH₂CH₃)

as a flavorant

② Prepared by reacting sodium¹²
furfuryl thiolate with sodium propyl thiosulfate (ckim 12)

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>EL</u>	NA Sequence (#) _____	STN <u>\$ 71.26</u>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic <input checked="" type="checkbox"/>	Dr. Link _____
Date Completed: <u>6-4-04</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>5</u>	Fulltext _____	Sequence Systems _____
Classifier Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>55</u>	Other _____	Other (specify) _____

=> file reg

FILE 'REGISTRY' ENTERED AT 20:15:18 ON 04 JUN 2004
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FILE 'REGISTRY' ENTERED AT 19:54:12 ON 04 JUN 2004
E FURFURYL PROPYL DISULFIDE/CN

L1 1 S E4
E FURAN, 2-((PROPYLDITHIO)METHYL)-/CN
L2 1 S E3

FILE 'ZCAPLUS' ENTERED AT 19:57:22 ON 04 JUN 2004

L3 1 S L2

FILE 'REGISTRY' ENTERED AT 19:57:39 ON 04 JUN 2004

E SODIUM FURFURYLTHIOLATE/CN
E SODIUM FURFURYL THIOLATE/CN
E FURFURYL THIOLATE, SODIUM SALT/CN
E FURFURYL THIOLATE/CN

FILE 'ZCAPLUS' ENTERED AT 20:00:01 ON 04 JUN 2004
SEL L3 1 RN

FILE 'REGISTRY' ENTERED AT 20:00:07 ON 04 JUN 2004

L4 3 S E1-E3
E 2-FURANEMETHANETHIOL, SODIUM SALT/CN
E 2-FURANEMETHANETHIOL, SODIUM SALT/CN
L5 1 S E3
L6 3 S 98-02-2/CRN
L7 3 S L5 OR L6
E SODIUM PROPYLTHIOSULFATE/CN
E SODIUM PROPYL THIOSULFATE/CN
L8 1 S E4
E LITHIUM PROPYL THIOSULFATE/CN
E POTASSIUM PROPYL THIOSULFATE/CN
E C3H8O3S2
L9 40 S E3
L10 15 S L9 AND A1/PG
L11 1 S L10 AND L4
E THIOSULFURIC ACID (H2S2O3), 2-PROPYL ESTER, SODIUM SALT
E THIOSULFURIC ACID (H2S2O3), S-PROPYL ESTER, SODIUM SALT
L12 1 S E3
E THIOSULFURIC ACID (H2S2O3), S-PROPYL ESTER, LITHIUM SAL

E THIOSULFURIC ACID (H₂S₂O₃), S-PROPYL ESTER, POTASSIUM S
 E THIOSULFURIC ACID, S-PROPYL ESTER, LITHIUM SALT/CN
 E THIOSULFURIC ACID, S-PROPYL ESTER, POTASSIUM SALT/CN
 L13 1 S L10 AND METHYLETHYL?
 L14 2 S L12 OR L13

FILE 'ZCAPLUS' ENTERED AT 20:14:46 ON 04 JUN 2004

L15 20 S L7
 L16 21 S L14
 L17 1 S L15 AND L16
 L18 1 S L3 OR L17

=> file zcaplus

FILE 'ZCAPLUS' ENTERED AT 20:15:24 ON 04 JUN 2004

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L18 ANSWER 1 OF 1 ZCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:833012 ZCAPLUS

DOCUMENT NUMBER: 135:357074

TITLE: Preparation and use of furfuryl propyl disulfide
as a flavoring agent

INVENTOR(S): Belanger, Ronald Louis; Isaac, Benjamin Owen;
Fortineau, Anne-Dominique

PATENT ASSIGNEE(S): Bush Boake Allen Inc., USA

SOURCE: PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

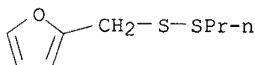
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001084959	A1	20011115	WO 2001-US14998	20010508
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD,				

TG
 GB 2363965 A1 20020116 GB 2000-11211 20000509
 EP 1280419 A1 20030205 EP 2001-935217 20010508
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
 PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2002110628 A1 20020815 US 2002-39427 20020104
 PRIORITY APPLN. INFO.: GB 2000-11211 A 20000509
 WO 2001-US14998 W 20010508

AB Furfuryl Pr disulfide, in organoleptically purified form and unaccompanied by substances of natural origin present in cooked beef and onions, is used as a flavoring. The flavoring agent may be used in a wide variety of ingestible vehicles to augment or enhance the aroma or taste of foods, particularly meat products, dairy products, and beverages. Thus, 0.5 ppm furfuryl Pr disulfide imparted a fatty, onion-like and juicy quality to bouillon soup. The flavoring is prepd. by reacting sodium furfurylthiolate with sodium propylthiosulfate.

IT 252736-36-0P
 (prepn. and use of furfuryl Pr disulfide as flavoring agent)
 RN 252736-36-0 ZCAPLUS
 CN Furan, 2-[(propyldithio)methyl]- (9CI) (CA INDEX NAME)

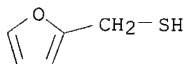


IT 6363-00-4
 (reaction with sodium furfurylthiolate)
 RN 6363-00-4 ZCAPLUS
 CN Thiosulfuric acid (H2S2O3), S-propyl ester, sodium salt (8CI, 9CI)
 (CA INDEX NAME)

n-Pr-S-SO₃H

● Na

IT 42988-62-5
 (reaction with sodium propylthiosulfate)
 RN 42988-62-5 ZCAPLUS
 CN 2-Furanmethanethiol, sodium salt (9CI) (CA INDEX NAME)



● Na

IT 252736-36-0P

(prepn. and use of furfuryl Pr disulfide as flavoring agent)

IT 6363-00-4

(reaction with sodium furfurylthiolate)

IT 42988-62-5

(reaction with sodium propylthiosulfate)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

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FILE 'CAOLD' ENTERED AT 20:16:06 ON 04 JUN 2004

L19	0 S L7
L20	3 S L14
L21	0 S L19 AND L20
L22	0 S L2